PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813

Generated 5/19/2023 4:21:08 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-127192-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424



Eurofins Seattle

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

M. Elaine Walker

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Authorized for release by Marie Walker, Senior Project Manager M.Elaine.Walker@et.eurofinsus.com (253)248-4972 _

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Client: AECOM

Laboratory Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	9
Chronicle	10
Certification Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	16

Case Narrative

Client: AECOM Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127192-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-127192-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Three samples were received on 5/12/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples AF-RHMW02-WGN01LF-2305W2 (580-127192-1), AF-RHMW02-WGFD01LF-2305W2 (580-127192-2) and AF-RHMW03-WGN01LF-2305W2 (580-127192-3) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/14/2023.

The continuing calibration verification (CCV) associated with batch 680-778520 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: AECOM Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

 Qualifier
 Qualifier Description

 M
 Manual integrated compound.

 Q
 One or more quality control criteria failed.

 U
 Undetected at the Limit of Detection.

Glossary

DL, RA, RE, IN

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)
MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

ML Minimum Level (Dioxin)

MPN Most Probable Number

MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Seattle

5/19/2023

Page 5 of 17

Client Sample Results

Client: AECOM Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2305W2 Lab Sample ID: 580-127192-1

Date Collected: 05/11/23 10:15 East Sample 15: 300-127 132-1

Date Received: 05/12/23 09:45

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UMQ	5.0	1 1 mg/l			05/14/23 05:04	1

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Client Sample Results

Client: AECOM Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGFD01LF-2305W2 Lab Sample ID: 580-127192-2

Date Collected: 05/11/23 10:15

Date Received: 05/12/23 09:45

Method: SW846 8015C GLY - G	lycols- Dire	ect Injection	on (GC/FID)						
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	UMQ	5.0	1.1	ma/L			05/14/23 05:28	

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Client Sample Results

Client: AECOM Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2305W2 Lab Sample ID: 580-127192-3

Date Collected: 05/11/23 11:45

Date Received: 05/12/23 09:45

	Method: SW846 8015C	GLY	- Glycols-	Direct Injection	(GC/FID)
--	---------------------	-----	------------	-------------------------	----------

Analyte		Qualifier	LOQ		nit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	UMO	5.0	1.1 m	a/I			05/14/23 05:51	1

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QC Sample Results

Client: AECOM Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 680-778520/9 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 778520

	MR	MR							
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			05/13/23 17:04	1

Lab Sample ID: LCS 680-778520/1005 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 778520

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	 20.0	21.4		mg/L		107	50 - 150	

Lab Sample ID: LCSD 680-778520/6 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 778520

Amaryolo Batom 110020									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol	20.0	23.6		mg/L		118	50 - 150	10	50

5/19/2023

Lab Chronicle

Client: AECOM Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2305W2

Lab Sample ID: 580-127192-1 **Matrix: Water**

Date Collected: 05/11/23 10:15 Date Received: 05/12/23 09:45

Batch Dilution Batch Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 05/14/23 05:04 Total/NA Analysis 8015C GLY 778520 GEM EET SAV

Client Sample ID: AF-RHMW02-WGFD01LF-2305W2 Lab Sample ID: 580-127192-2

Date Collected: 05/11/23 10:15 Date Received: 05/12/23 09:45

Batch **Batch** Dilution Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total/NA Analysis 8015C GLY 778520 GEM EET SAV 05/14/23 05:28

Client Sample ID: AF-RHMW03-WGN01LF-2305W2

Date Collected: 05/11/23 11:45

Date Received: 05/12/23 09:45

Batch **Batch** Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type **Factor Number Analyst** Run Lab 05/14/23 05:51 Total/NA Analysis 8015C GLY 778520 GEM **EET SAV**

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Matrix: Water

Matrix: Water

Lab Sample ID: 580-127192-3

Accreditation/Certification Summary

Client: AECOM Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority NAB		rogram	Identification Number	Expiration Date		
		ept. of Defense ELAP	L2463	09-22-24		
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the agency does not		ort, but the laboratory is not o	certified by the governing authority.	This list may include analytes for whic		
,		ort, but the laboratory is not o	certified by the governing authority. Analyte	This list may include analytes for whic		

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Sample Summary

Client: AECOM Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-127192-1	AF-RHMW02-WGN01LF-2305W2	Water	05/11/23 10:15	05/12/23 09:45
580-127192-2	AF-RHMW02-WGFD01LF-2305W2	Water	05/11/23 10:15	05/12/23 09:45
580-127192-3	AF-RHMW03-WGN01LF-2305W2	Water	05/11/23 11:45	05/12/23 09:45

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Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

eurofins
Environment Testing
America

Client Information	Sampler And	M: ne W:	aiker					Fed	ΙΕx	king No	s):		COC No: 2305W2AFEA01					
Chen Contact:	Phone: 402	il: laine.	State of Or Walker@EurofinsET.com Hawaii							jin:			Page: Page 1 of 1					
Company:	PWSID:							****			eque	sted				Job #:		
AECOM Address: 1001 Bishop St. Suite 1600	Due Date Request see subcontrac										T		7	Preservation C	M - Hexane			
City. Honolulu	TAT Requested (d.	ays): Rush - t	5 Day		1000	anot								1		B - NaOH C - Zn Acetate D - Nitric Acid	N - None O - AsNaO2 P - Na2O4S	
State, Zip: Hawaii 96813 Phone:	Compliance Project	ct: A Yes	A No		0	DA!_GL_D5/ 2-(2-butoxyethoxy)-ethano						1				E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid	Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate	
808-954-4512 / 770-331-0794 Email: Watson Tarjii (watson tanji®aecom.com)/ Mark Kromis (mark.kromis®aecom.com)	WO #:				es or N	ntoxyeth					\mathbb{X}				ners	I - ASCOIDE ACID I - Ice J - Di Water K - EDTA	U - Acetone V - MCAA W - pH 4-5	
Project Name CTO NB274223F0104 Ste	Project #: 60697810 SSOW#:				Oejdu	5/ 2-(2-5)				1	1/4	9			contai	L - EDA Other:	Z · other (specify)	
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Telinquished by Andy Young ast	Date/Time: 5/11/25/	130		Company AECOM		A	CX	E	<u>In</u>	th.	<u> </u>		3	711	123	1306	A Ecom	
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580-127192 Chain of Custody

Eurofins FGS, Seattle Chain of Custody Record 5755 8th Street East Tacoma, WA 98424

🔅 eurofins Environment Testing America

	Sampler: And	Carrier Track Walker FedEx							king No	(s):			COC No: 2305W2AFEA02	2	titus tieses					
Client Information Sient Contact:	Phone: 402-8	71-57	12	E-Ma M.E		e.Wal	.Walker@EurofinsET.com					State	of Orig	jin:				Page: Page 1 of 1		
Company:	<u> </u>		PWSID:		Π	-TATEMENT -					s Re	aues	ted				1	Job #:		
AECOM Juddress: 1001 Bishop St. Suite 1600	Due Date Request see subcontrac																	Preservation Cod A - HCL B - NaOH	ies: M - Hexane N - None	
city: Honoiulu	TAT Requested (da	Rush - 5	Day			1	2								1			C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S	
state, Zip: -lawaii 96813 -hone:	Compliance Projec	t: ∆ Yes .	Δ No			1)/cm					1	2					E - NaHSO4 F - MeOH G - Amchlor	Q - Na2SO3 R - Na2S2O3 S - H2SO4	
308-954-4512 / 770-331-0794	WO #:	 	······		or No	2	Young to				1							H - Ascorbic Acid I - Ice J - DI Water	T - TSP Dode U - Acetone V - MCAA	ecahydrate
Matson Tanji (watson.tanji @aecom.com)/ Mark Kromis (mark.kromis @aecom.com) Project Name: CTO N6274223F0104 Site:	Project #: 60697810 SSOW#:				Sample (Yes or No	Perform MSMISD (Yes or No)	2)		1	*					- west		containe	K - EDTA L - EDA Other:	W - pH 4-5 Z - other (spe	acify)
RHSF			Sample	Matrix	ered Sa		(1							1 F	aper o			
7	Sample Date	Sample Time	Type (C=comp, G=arab)	Matrix (Wowster, Sasotid, Gawastafoll, BT=Tissue, AnAir)	Field Fift	Perform M											Total Number	Special In	structions/f	Note:
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B	onknown	radio	logical				Returr	To	Client			Dispo.	sal By	Lab	L	A	rchi	ve For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev	el 1or2)=se	e TAT abo	ve. DoD Stag S EDD.	ge S	Specia	al Instr	uction	ns/QC	Requ	ireme	nts: (OOD	QSM p	roject					
Empty Kit Relinquished by:		Date:			Tim							1	Method	of Ship					Company	
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		y_i		1															+CI, 01/10/2	2013

Eurofins Seattle

5755 8th Street East Tacoma, WA 98424 Phone 253-922-2310

Chain of Custody Record



🖏 eurofins

Environment Testing

Client Information (Sub Contract Lab)	Sampler ¹		Lab PM: Walker, Marie E							C	Carrier Tracking No(s):						COC No: 580-119737 1				
Client Contact.	Phone E Mall M Elaine Walker@et.eurofinsus.com							f Origin													
Shipping/Receiving Company·	<u> </u>			М								!'	lawa	ii					Page 1 of 1 Job#:		
Eurofins Environment Testing Southeast,			Accreditations Required (See note): Dept of Defense ELAP - ANAB									580-127192-1									
Address 5102 LaRoche Avenue,	Due Date Request		Analysis Requested								o d					Preservation Codes					
City	TAT Requested (da	ays)				(200	Т	$\neg \top$	Τ'	Anai	ysis	Neg	Jest	eu T	Т		1		A - HCL B - NaOH	M Hexane N - None	
Savannah]	. ,																	C - Zn Acetate	O - AsNaO2 P - Na2O4S	
State Zip GA, 31404						9	ᅙ												D - Nitric Acid E - NaHSO4	Q Na2SO3 R - Na2S2O3	
Phone	PO #.						ethai												F - MeOH G - Amchlor	S - H2SO4	
912-354-7858(Tel) 912-352-0165(Fax)	WO #:				- ş		(X)												H - Ascorbic Acid	T - TSP Dodecahydra U - Acetone	ate
CATAN	WO #:				5	9	2(2-Butoxyethoxy)ethanol												J - DI Water	V - MCAA W - pH 4-5	
Project Name	Project #:				اعّ	or No)	3rto											ine	K - EDTA L - EDA	Y - Trizma Z - other (specify)	
Red Hill - AFFF Assessment Sampling Site·	58018727 ssow#:		····			SD (Yes	2(2-						ŀ		ŀ			ont.	Other	Z - Other (specify)	
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			Sample	Matrix	Par	#S#	DAIGL											nper			
			Type	(W=water S=solid,	齓	Ē	<u>4</u>											Ž			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp,	O=waste/oil, BT=Tissue, A=A		Perfor	8015C											Total	Special Inc	structions/Note:	
Cample Identification - Cheft is (Las is)	Cample Date		CONTRACTOR MANAGEMENT	tion Code:	CARROLL CHARLES	₹ T	*									1 2		攵	Opeciai III.	Al detions/Note.	
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AF-RHMW02-WGFD01LF-2305WK2 (580-127192-2)	5/11/23	Hawaiian		Water	Щ		×		_		<u> </u>				4			3	the samples		
AF-RHMW03-WGN01LF-2305WK2 (580-127192-3)	5/11/23	11 45 Hawaiian		Water			x											33335 553	Include LCS/LCSD the samples	and MS/MSD on or	ie of
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Note Since laboratory accreditations are subject to change Eurofins Environmen does not currently maintain accreditation in the State of Origin listed above for ana																					
status should be brought to Eurofins Environment Testing Northwest, LLC attention																					1
Possible Hazard Identification						Sam	ple I	Dispo	sal (A fee	may	be as	sess	ed if	samp	les ai	re re	taine	d longer than 1	month)	
Unconfirmed							\beth_{Re}	turn 1	o Cli	ent	Ī	\Box_{Di}	spos	al By i	Lab	1	\Box ,	Archi	ve For	Months	
Deliverable Requested I, II, III, IV, Other (specify)	Primary Deliver	able Rank 4	1							'QC R	lequir	ement	s				*****				
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Relinguished by	Date/T/me	<u> </u>		Company			Receiv	ed by			وسر				Dat	e/Timje	: ,	,		Company	
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Relinquished by·	Date/Time ⁻	Time Company				Received by						Date/Time						-	Company		
0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					\bot	Cooler Temperature(s) °C and Other Remarks										<u> </u>					
Custody Seals Intact Custody Seal No						ď	Cooler	Tempe	erature	(s)°C a	ind Oth	er Rem	arks		U	- 9	10	1 -	6		

Client: AECOM Job Number: 580-127192-1

Login Number: 127192 List Source: Eurofins Seattle

List Number: 1

Creator: Groves, Elizabeth

Grouter: Groves, Enzasotti		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: AECOM Job Number: 580-127192-1

Login Number: 127192 List Source: Eurofins Savannah List Number: 2 List Creation: 05/13/23 12:37 PM

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

N/A

Residual Chlorine Checked.